

**METHOD AND APPARATUS FOR CREATING REAL-TIME LATENCY GRAPHS****ABSTRACT OF THE DISCLOSURE**

The inventive mechanism manages packet delay values that a network incurs in transported data packets. The mechanism uses a plurality of bins for maintaining the number of times that delay values fall within the range of a particular bin. The mechanism also uses a storage array for maintaining delay values that do not fall within the range of the bins. For each delay value that is received, the mechanism determines whether the delay value falls within the bin range. If so, the mechanism increments the number of a particular bin into which the delay value falls within. If not, the mechanism stores the delay value in the storage array and effectively doubles the size of the range of the bins. The mechanism will then effectively re-slot the values into the scaled bins. This allows for the numbers in the bins to be used to form graphs detailing the latency of the network for display to a user.